



**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

500.42992X00

SERIAL NO.

10/628467

APPLICANT

N. KAWAMURA, et al

FILING DATE

July 29, 2003

GROUP

2165

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 7 3 2 1 2 4	5/04	Koseki et al	707	202	-
2 0 0 4	0 0 9 8 4 2 5	5/04	Wiss et al	707	204	-
2 0 0 4	0 1 0 7 3 8 1	6/04	Bomfim et al	714	4	-

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Am	A. Bhide, "An Efficient Scheme for Providing High Availability", IBM TJ Watson Research Center, pp. 236-245, June 1992.
Am	J. Gray et al, Transaction Processing: Concepts and Techniques", Morgan Kaufmann Publishers, 1993, pp. 556-557 and pp. 604-609.

EXAMINER

DATE CONSIDERED

01/03/05

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>500.42992X00</b>	SERIAL NO. <b>10/628 457</b>
	APPLICANT <b>N. KAWAMURA, et al</b>	
	FILING DATE <b>July 29, 2003</b>	GROUP <b>2165</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Am</i>	<b>6,748,502</b>	<b>6-2004</b>	<b>WATANABE et al.</b>	<b>711</b>	<b>158</b>	—
	<b>2003/0074600 A1</b>	<b>04-2003</b>	<b>TAMATSU</b>	<b>714</b>	<b>6</b>	—
	<b>2002/0133507 A1</b>	<b>09-2002</b>	<b>HOLENSTEIN et al.</b>	<b>707</b>	<b>200</b>	—
	<b>2004/0133591 A1</b>	<b>07-2004</b>	<b>HOLENSTEIN et al.</b>	<b>707</b>	<b>102</b>	—
	<b>2002/0095547 A1</b>	<b>07-2002</b>	<b>WATANABE et al.</b>	<b>711</b>	<b>114</b>	—
	<b>4,821,172</b>	<b>04-1989</b>	<b>KANEKO et al.</b>	<b>710</b>	<b>5</b>	—
<i>Am</i>	<b>6,502,205</b>	<b>12-2002</b>	<b>YANAI et al.</b>	<b>714</b>	<b>7</b>	—
	<b>6,643,795</b>	<b>11-2003</b>	<b>SICOLA et al.</b>	<b>714</b>	<b>6</b>	—

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

<i>Am</i>	<b>Rahm, Performance Evaluation of Extended Storage Architectures for Transaction Processing, University of Kaiserslautern, Germany.</b>
<i>Am</i>	<b>Veritas Volume Replicator, Enterprise-Class Disaster Recovery for Mission-Critical Environments, 1992.</b>
<i>Am</i>	<b>R. VanNatta, "Crash Recovery" Database Management System, 2<sup>nd</sup> Edition, pp. 1-26.</b>

EXAMINER <i>Am</i>	DATE CONSIDERED <i>01/03/05</i>
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	APPLICANT <b>N. KAWAMURA, et al</b>	
	FILING DATE <b>July 29, 2003</b>	GROUP <b>2165</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Am</i>	<b>4,751,702</b>	<b>6/98</b>	<b>Beier, et al</b>	<b>714</b>	<b>13</b>	—
	<b>5,758,355</b>	<b>5/98</b>	<b>Buchanan</b>	<b>707</b>	<b>201</b>	—
	<b>6,173,292</b>	<b>1/01</b>	<b>Barber, et al</b>	<b>707</b>	<b>200</b>	—
<i>Am</i>	<b>5,640,561</b>	<b>6/97</b>	<b>Satoh, et al</b>	<b>707</b>	<b>202</b>	—

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					YES	NO

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(Form PTO-1449 [6-4])